AMCGRAW-HILL PUBLICATION WEEK





THE PANTHER... U. S. Navy's Jet Fighter

Here is a plane with a heritage. This new turbo-jet PANTHER succeeds such famous Grumman predecessors as the Wildcat, Hellcat and Bearcat. Impressive speed and formidable fire-power are achieved in the PANTHER without sacrifice of traditional Grumman ruggedness and stability.

GRUMMAN AIRCRAFT ENGINEERING CORPORATION, BETHPAGE, 1

Contractors to the Armed Forces

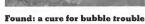


The increasing releases on Facther, Woods Od Cooker refregs strelicted by the Chilled wind turned labor









τ.	the infinishe seals on the Nee
	upe. The seals board wader due sene
	m of high possess on the sand
	pressure on the parade
	F Goodsch enmeses maked th
	bless A really offerne subsub-

Auburn Aviation Week Volume 52 Merch 27, 1950 ROCKET MOTOR

Infinity Observer Who's When

Mandine Mess Modelled Bill Pushed to Trainer. . in Transport Train on the States. with blab stiffends chiefd Figureist How Marker C.W. Horn Lawrence M. Aviation Sales & Service Income the to Fredhern M th Townson Air Trempert Scholated Carps Liggs' Steen Str. - 40 Acrementical Engineering These is Value of Service Testing? | 20 f-Ottoriols State Care Booking at a Chance ... M. W. State Verynold

> New Peper Parking for Dealers What's New Alexander Michaele - Michaela Etter - Mede Adams -Encance and Educati Office: 30 Wes 42nd S., New York IX, N. Y., Phone Learning 620th Natural Press Bills, Washington S. D. C., Phase Natural Mills Domestic Ness Surveyor Meleste S, HandersBrowery Edde ; Chings El, 128 N. Hick-pen Ave., Cavaland D, Henne Bildgi Bertini M, Pencherri Edde ; Le Angeles 14, 537 S. Hope St., Son Francisco 4, 45 Facil R.; Hitzates, 124 Santh St. Gerrapondoni in mote than 60 mapse etchi.

Production Develop

Percapi Neur Eurome London, Paris, Frenkfurt, Tohre, Somben, Malbonese, Koo de Janeiro, Menico Chr., Correspondente se moto than 10 major cities.

Anks Staffs, Assert and Marketine March 27, 1918 CANADA PROPERTY IN CO., LANSING, MICHIGAN COLUMN PROPERTY AND PROPERTY OF STREET



FAFNIR

Bulliant designing and solid performance have always characterized Grumman thins . . . from the Hellest of gesteful memory to the versetile Mallard of today. More than a dozen years ago, Fafair Already Ball Bearings were among the first commonsts specified by Gramman. They're still a too specification because of something unique about Fafair. It's an attitude and an arritude . . . a way of looking at hall bearings from the declarer's side, an apritude asisted from more than twenty years' specialisation in aircraft ball bearings. The Pafriir Bearing Company, New Britain, Connecticut,

PARSON WWW. CERES . . . s double you deduc for added constitut paytaneous and the most effective returned of lubricust

M mm Also melara afi * Subdraction thermoreuphe is other films. It for bases Fires 8 Authorates Innites # Hospers Sented College - AUBURN -AUTURN N. Y. Accord Bootles Store Office In the Park of M. M. Y.

Ignitor Pluas

made to pay size

to speed year of-

FOR YOUR CONTROL NEEDS use Macwhyte cables ... terminals ... assemblies

Managerta's 196 Patronel Appropriate Cable or cond

Call a Macolysic databaser or und requires direct to Monthair Commune: Cutalan A.I. is available at remain MACHINETTE COMPANY THE CONTROL OF COURSE NO.





WHO'S WHERE

Channe



Travel Los

Secretary of Delease Lean behavior at an Schools, revolveniers and pomer plant

Honors and Elections Brown Lebrary, Plaba Salery Farandelson AND ATTOM WHEN MANY OF THESE

INDUSTRY OBSERVER

In Principles 18-71 believator has a former rates of \$200,020, the USAF Physical in 21 honouper has a forward price of \$200,000, the United Students for a make and is designed day a campbilly of steleast up the

tractioned next works, and in designed next a community or persons up the . Consider in executation a "WIP" various of the North Stor DC-634 for

Writch for off-the-shell purchases by New of some belicopted for not-saltenesses weather, methodoxy to the dearn conventition for new and

bearer models of B defeateds adamand. Most Bark conditioner per Sikorsky

A Combine Amonda Come, and allows provided discharge resoluble for the advantage of bridge payment a survey to order proper contains for the I so No. 1 with advertisers' some displaced on the shins in the distinct

- Windowski too tests of the Northern VII 42 Plant West smalled to

. CAA along to good 100 hr. Eving time for 10 suspection on the Borone Studenmer, Leekberd Constillation and Constallator for Sketc nor

many completely with military francoust requirements.

► Westparkers: Electro Com., Gas Trabina division percets to secondar results, and to be producing parts and attentibles at Krains Circ by Man-



RUGGED



and healt to appletant to. vece landing shocks on short or usprepared helds, provaling maximum selety to corge and crew Examples of this report

welded steel take construction and startly halkboard between the flight and the course derks.

HEST TREATON NEW IERSEY

AVIATION CALENDAR

Mrs. 25.76 Acceptor Sounds for Yading he 23.26-American Society for Visiting Managels, Committee D 14, aprile more rec. 1006 Euro D . Fidadelale: duray, play Per, Chings, Mer, 50-31-Such contai Inforper Serom les. 66-Engineering and Maintenano on-Engagement and Management Arm, Hatel Confinents, Kawes City Age. 44-National Fredrictor Economics systemed by the Chicago Technical Be-carrier Control, States Hotel, Change, Ast. Sol 10th, Mallorel, Agreed; Standards

Station, Division. Springs of Machaelest. ins Am of Arget Secretive, resident House Hotel Colombes, Oke sand in Curpe Aloy Feathy Co., Hent Steley, British

May 15 14-43 National According Stand

PICTURE CREDITS ANATION WITE, Hard St. 1990

NEWS DIGEST

Mercella Assation Corp. htt notified energies its cotion to manhane all test curry this sociation. Duradings about commercia even I malbon as its of floor

Especial for Eulersons of passengl and \$236,246 company with an games valued at \$124,120 separated by the Cognerous de Bessicch, Decision, Leigna, Afrikary trailed shing in earther of An AV regater resolved and lawrest ra

to a measurem of eight sour. They arrenorment substrations to Ensur months. Howard Harber has returned the

stoward Hapter has returned the of (Clark) Clifford and (Edward) Miles CHEA CORNER with minth our or U. S. Atlantic Floor ships and onattack. Albed no costs will assume

had and reconditioning of 356th Davids C.55 treatment for USAY, In-Four Booking B-29 Superfects left

howe by U.S. come who well remain toronously in England to sense in Harmston, L. J. N. Y. He une a banker before affiliating with PAA as 1941 as a vive namedone. He was appointed in

> PENANCIAL Pacific Aimeetine Cons. progets a net

was \$777.067 on married Ave Less, less, appropriet a net profet for

DH Carnet roads Set London-Rome IATA Chening Plonge or ports Income Late Sline of chemy rather than truffer





- O Flougod End Mountage O Penned Price OR MOUNTED Tools O 1/10'-SAI Second Shafe
 - Personanced Start Sent Eabout Hardwood Green and
- Agh Praisin Systage Substant for Late Read by 16 Ft at 1800 Read O S State State Management Sundard 14" Phin Photo
- From Openional I Pass Sundard - 211 190 In Lin Steel Torque .

ACCESSORIES CORPORATION of the artifact and . RESPRESS TO CASPARENCE



Are year taking full adventage of the constantly growing range of forgings? Typical is this aluminum alloy forging with a projected area of more than 1,000 square inches used in the wing structure of a modern military homber. Such forgings are today made possible by the use of the largest die forging press in America (18,000 tons).

For hammer or press die forgings of aluminum, magnesium or steel. Wyman, Gooden engineers are ready to serve you....there is no substitute for Wyman. Gordon experience

Standard of the Industry for More Than Sixty Years

WYMAN-GORDON Forgings of Aluminum, Magnesium, Steel

WORCESTER, MASSACHUSETTS, U. S. A. HARVEY, ILLINOIS DETROIT, MICHGAN

Consumy	December 19	Profet	Second 194	nor i	Salong Capital NO Year-end	Elish Year an
Book Alovedde Fed. Average South Courter South C	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (20 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A		#1,111,000 1,111	#80000 #8000 #8000 #8000 #80000 #80000 #80000 #8000 #80000 #80000 #80000 #80000 #80000 #80000 #80000 #80000 #80000	11, 80, 00 10, 10, 10 11, 20, 10
TOTALS	- \$1,417,425,148	858,001,700	31, 131, 851, 130	\$15,042,445	\$373,713,520	12,041, 295,70

Big Year Assured for Plane Makers

Backlogs and better facilities add up to hest business outlook since war ended.

The community builded by a delice or

W-1 57 No. 17

Good success and modits well be an

. Every company made a profit to 1940

TRANSPORT BOOM

Comparative Backloos

The tree secretary or residence in

babber book on at terranely "The "Abbed to five our the lengths.

MISSILE HEIGH Not to store women, naded

thickest arounds blanket. This year or another of couled counts work. They

AMERITANA MATER ASSESS OF THESE

In the Air with Boeing's Flying Boom





STEP STATE PROTUSES, pot returne, show section of new Equips Physic Boom around refording uniters in noticed mid-air record. those. Accord photos, titlere from and togething bearing of 3-27 officer. B. SCE: below on find hard thousands belowere become ting eager every it. It. Goodness surprising people of



STEP STATES PROTUBES, int placed, done datab of new



and buckles (see table) will be the con-

there envenessly to show a loss to 1945. a Showed backlowed \$107 and how to der

pine is shown as a chosen as it is impacted by a flight test corn. Sepond visition, holding from an obser, skip one be roce in ride Force business 520 million in News losses to apply against tax helidity for on sulltury business. Copyth of Conwarfs subject backles indicates at least # Sold \$167 reillion to the Air France

and over tower of banker or Bight. Note and roung strips.

CURTISS, WRIGHT Food test of the new monament at

not yet come up to our control cuts

LOCKHEED Lasthowith productors auticols in

A WALL OF THE PARTY OF THE PART

NORTH AMERICAN

UNITED AIRCRAFT

P Delta Deliveres-Chance Veneta at

be William to Managed - Will confer hard a such a

Modified B.25 Pushed as Trainer North American claims B-25-J would cost AF one-fifth what it need for new navigation trainers. at 2400 has down 18 Lid and 2100 has

Budder of approximately 1400 North

North American made its witch for reside 3 ft. longer and about 15 in and a tail came. When and numerouses

P Over 500 Mph - Using its region!

cleater bombs while wine racks seement cited, while make individual and other

American has modified on as conditions

To have of the modification reserves

Temporary Truce on Air Budget House group tentatively approves President's 1951 AF

and Navy aviation budgets, but hits fund impounding. Commence of the Commence of th having executive exthesis long for no week when Hause Assessmenting Com-

Congression espenial apparhension 1300 vs for sean

total frank manifolds will be \$3,03G, 448,000 Or this \$1,525,000,000 will Developments industrial beauti-

Military represent \$1.245,000,000 a. a fide-posterior SSS 620 000 a color

121 000 Reven Officer Torons Come. \$10,693,000. Air Names a Real Possesty Construction \$75,000. with they adventure of smeal) here a total groung ground, in French, the Ar Hisby AFDC for any was been by the

. Pletel sixual recovered, \$633. • Modernámbura, 520,650,000 511.

. Research and development, 574,775.

a Industrial problemsion, \$4,064,021 CARACTERS MATTER SALES TO THESE which common SC 407.000. You got each part and starbard, and one of the breaker would be weekende Alsonit combral \$153.354.225 · Outin markey file for the

 Alteretion and replacement of facili-. Separating equipment and services. · Newl Reserve. Fight constitute

* Abainsteline, \$3,417,155.

Potent Punch Rocket around B.26 man revolutionize bomber-Sebter teories

USAF will test up all swirtnessed

Meule stratuust uid bombei deprofess are furnity of twee rocket

Rocket defeasing weapons could of an interregion to come within come

waspone test will be reade using the Hagher reacts, MX-994, the colo

TURBOLINER NACELLE County dorter shows suitabless of the Advanture of the intelligence or countries. he so it will report to the Communitator are expected to give additional speed game which Central Matter has purchased as a fee the neyline shows that reading from

Yests will deposite affect bene-constate up to 2008 water Employed beauty

> AF in Quandary Over Fairchild Successor

stellation. He removed at that your

His death lower Air Page is a

ANIATHON WEEK March 27, 1950

SALES & SERVICE

Increance Plan for Fived-Basers Arrangements by America with NATA and AOPA are expected to cover 2000 enerators, 10,000 planes.

G. C. Whiles, Assessed providest. Indige building marks assessment, on country" on sale differential below * Aleccelt Inhelity 512 pressure for ➤ Expresence Return—Consumory cover

A formular properties senset have with the pilots and owners every under

BRIFFING FOR DEALERS AND DISTRIBUTORS MATRICULAR RATED-DI the re-

SCORTTA CUBLITY-In sub- fear SCOPTER UTILITY-IN the men offender, a Mangrout, Ltd., plot and contex about NSS & of color with PARE MARKER AND Work of an could to not take forms formed MUST READING - Acceptable Beech-Raby desire, the new ores has

Ove, Köppen Co., his speniel s. Suele contact for its dishest and dis-

Take Off-Climb-Cruise-with the Elving Red Horsel





at over 1,000 U.S. **AIRPORTS**

Widest Wingspread on U.S. Airlones

AND PERSONS NAMED IN CO., NO. OF PERSON



INTER SCORE DUCT SAIR

FREELACE FRAM

THE POPE SHIELD PARTIES

PRINT'S CAMPPY FALE

arms are bandled week sound ease, countly on the same was

enter, steakhane, best poering, referencing, copye collegate It allows for greater versatility of molang-enables

MACHINE WORKS, INC.

AERONAUTICAL ENGINEERING

What Is Actual Value of Service Testing? Students of question say that one way to find out is use The conduct is then subsected to the

of probabilities methods of evaluation

*What does senses dealers occur?" Data as not remishly use of such a a Military Fronther The fast recolors.

Manufacturer, Aidings On the com-

Fig 1 Second form of securement In addition to this recursed finder



neets. The common them, can be co. choosed "At what point in signifi-

the solution communicate of various

of flarks time cost to develop these

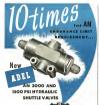
entracement errors can be determined. Fred Cost. Total cost secured to



troupont place is shown in Fig. 5, a slot of the combined cost of Fight



ANATORN WERE MANY 27, 1950



Outstanding Features - ENGLISHES THAT ADDRESS SHARTHAN CHOCKS 2000 FSI (AN REQUIRED-2.000 CYCLES)

- SHITTLE IS TONE PROFT CONSTRUCTION . AN AFPEDVAL ON - 4 -5, -6 for AN-4209, AN-6317,

AN-6277, AN-627E . ALL DASH NUMBER ALL AND ENVELORS AND SIZES A 15 A

-8. -10 AVAILABLE - MEET OR SURPASS ALL REQUIREMENTS OF

+ BATED FLOW CAPACITES-12 to 10.5 gam. w TUNE OO 15 to N.

Format April 1

Poisson's Distribution

construction and and add within

the less of probability. If the latter is Printer's Distribution - Ledeur and policie cost en solvene mobileme relat-

traffic at acrossts. It is also hence used rend service, has suggested that data rendship from the Delly Mechanical The processing of these data is a

the CAA, the Air Lose Plans April

the makability of probability data com-

the Birdmen's Perch

Afterny remombers at a given or sured

AND NOW ...

discount the wooden of Co Viscote Asso.



LITTLE KNOWN FACTS DEPT.



con small Early Norman Form About Well "Day to fact consumerion the Books

Galf Oil Corporation . . . Gulf Retries Company ... Marketer of AVIATION









ROHR WILL BUILD IT FOR YOU

BETTER.FASTER.CHEAPER!

When it's made of metal properly and nuckly

and at the right price - come to BOMB. Dec. ducts for Bosons, Conyair, Lockheed, Northron, North American and many more of Ayua. now being made here.

And the proven production skill, equipment, engineering ability and experience

share and an alternative and property of the state of the able to you, too. On your next job . . . see ROHR.

Mostratian SEAM WELDER built expectably by ROHE to bendle tabuler essemblies of high tomacreture alleys on to 110 mohes land.

MRCHAFT CORPORATION II

Soil Onick-Hardened Into Landing Strip

to the test section current teen now betar conducted will

not stop a few of the many the devices the course your madden specime

and contracted both as officerery

O HARTMAN RELAYS PROTECT POTING'S R-47 ROMBET

Might of the Habrariehr compact other devices in military called on Harauan to supply vital

musel insulfed in the Straoner.

11) Millionariah Makana and Rasson Carrier Salary - Connects accretices No Greened Freds Radow, Science present freds; whose freds exceeds not visited,

18) Contactor and Despose Roley (Not School) - Located to Associate mea-

the control own is care to Managers many of enconference.

the Hartman Electrical Mfg. co. MANSFIELD, OHIO

AND PERSON NAMED AND ADDRESS OF TAXABLE



Now . . . Machined by CLARY

of sixes Immediate delivery

for Strength and Precision Machined by Clary to specification from bress The corresponding 105 This amount extra search, shorters previous, and the record



service the about mileton seen that

Shon Courses Held For Martin Davigners

Then furtherested come for de-



and conductive or served to the Pages 17 and submarine seconds with successed flight endurance and a both source of power

UUUULE MAMRA

BLET MOIDES CO.





First Cutaway Views of J-42 Turbo-Wasp



The powerpliest is so see with the





Bolt for the blue...

pre-tested!

Bell_mapersharger_or complete wing assembly-every General Daurha mass reflect the latest excragence ebonnos. Hardanamento are made patible and autilit. No time

help you realise maximum utility of all your linearies exercit.







WILCOX ANNOUNCES A Completely New 96 Series Transmitting Station 2500 Wetts

2-18 ms/s

Mills Index

HEW THE CONTRACTOR DECORAT CONTRACTOR INCOMENTY

A flexible multilanguagy states can be fressed from a combination of title and the 2000 Characteristics, one or two 1895 biochains and a 1805 Particular to complete the state of the 1805 Particular to the 1

NEW... FRONT CONTROLS PROVIDE AGUISTMENT CONVENENCE

NEW... DRAWER-TYPE CONSTRUCTION Means East Maintenance

WILCOX ELECTRIC COMPANY KANSAS CITY I. MISSOURI . N.E.A



Extra Blood Builds Altitude Resistance Emergances at Dake Unincité have

UNESCO meeting at Lines, Pers. by In tests at Philes for students who

numero alest and perform certain tesks while at a nimelited altereds of 15 000

Radio Station For Moneywing Ionosphora

The National Resourced Streeterly has Concernes of fear buildings on 1th rateauty recorder, imcephese record-



gircraft manufacturers currently specifying TINNERMAN

Speed Nuts

1. SPEED NUTS weigh less then any other self-2. There're conier to install There're applied to company for sarriages. Thomash of Marin Surray, Spann Chipps, and applications, and accorde lower costs, increased appelor

TINNERMAN



The Standard of the Industry



AVIONICS





Pinner Setun... The outbodes, me thou of



TYPE WWD

Oldrico the hear Welsh Steday Brains



shown theread made made he stake.

P. Podrozbernetter Actions The variety for *Londing Scale-To the left of the

A new leading is then auslied to the

we retrovable for the construction



Who watches engine temperature

control Cetendard assument on News paten course which and fabter No matter what your special recomment may be. Brestai's Armosh

What's your control modulous? I so so solve at Whather your weeks sell for encine tenoperate Address and ad impanies to The Bostol Sent Depter Terrespiere Sent Avenue is stilled

fund /come is stallar pater fundation, and man FRFF! Latest Bulletin of Assa Controls

AVMITON WITH March 27 1892

PRODUCTION Floatsia Ossana

Help solar control heat in fabricating stainless steel jet engine verte

P. Farrage Mickeys, The Arrages us.

PRODUCTION BRIFFING

of bolours. Adoption of the sires. P.Gooben Airest Cop. was sanded of hydrogen. Adjustment of the singua. * Goodstee Agenute Coop, was awarded we the human of the shot and end of transport on Capital Attents are



Part Sundah-Andread in come derived how Collect the Slates of how a road by Saranda Turkoshibeda Ali Lamantuna. Grant of outs \$200 fts. and may not be a by Svenda Turkschieds All Longstons. threet of only 5350 fts, and may not be a

h Northern Assembly, Eng., has not use a research and development projects out-

AF Bid Information

daris, Jos. Minuskas, Wes-

on a bid of ES tig II
For themsel however grades 100 FEE.
Commands therefor Frenches Frenches,
hea. Howard M. J. on a bid of \$21 DM,
and Bigger or Paythest Off. Breaks Avioles
for French, block on a bid of \$25 DM.

For Description (4)-740; Entron Pleaser Div. Roofin Artefor Parts, Totochop W. J. et a hid of the

Companies thering Italians MCs. splet, D. in Alband MCs. splet, D. in Alband Fred TS, and Jo insplice Colons & Sec.

riving law Co. Moralett.

or of the election (All the Consequence of the State (All the Consequence of the State (Consequence of the All the Consequence of the Consequ

PARAMETERS MARK MARK TO THE

or before and purchase (18-751)

F. S. Ederstand Tree Co., Christian Co., and of \$11.55

For a time bringer (18t-18th)
Compraise sharks of H. S. Wagner May
Co. Miracolors on a Mel of \$6500 and
Printed D. Browner Co. Reason Fails Com-

e bid of \$12.000 For 1300 persons for head plan (50.000): William FYSTS for DATYER Comp. on

room on a list of girl be.
r (tabl assessed out-May)
Chemes May Co., Written O. w. of \$841 ct For 1000 parachale acceptible (18-618); Mand Artefred Bangaten Cv. Trucker for Publishers (St. 1987); Software, Engineering Co., Law Assets 1800 continuers accombine (18.841) -

E NO OF PARCETS.

For guardine bear CH-1581
Elevent Franker der Rouber Franker

Banker er einer der Rouber Franker

Berleit er einer Greit er Daffale on a toll of \$15544 Fo. For proseculars massines 140-5827; ter jedtnesse (10-754): Edipas Procest Rg. Roodin Aviation my Volentoro, on a Bif of \$10,721.00, by led and all archers (10-201). Phylyne Wire Cloth Ds. Errock, on a

notes the ray United States Nov North on a Mid of \$100,000 on A Taking Co. Done

of 41 500 For inductions (50-764) Softpan Phinasan And Hondin Artalian Corp. Telephone on a 504 or \$10-511.65

Character Character Co. Schwandafy, on a

na of staff III For monas maniferra (80-848): A and K Employeding Co., Coolington Edition a hid of \$15,000



FINANCIAL

hass of these two seders, other arrives

How Martin, C-W Have Improved

New reasonments and new policies have not the two large companies on road to better financial health.

oferton, a condition which was struction, a condition which was P Non-Recorder Incompanies fact For the first time, the company has a Worker Could-A much stroom on the sale of the function Chemicals Doshie need August, 1951, and may easily with \$9.7 refiles a year extina. The In commercing upon the second or

P. Norwell Income - Localizate, wheeling for all peachle one stearing from record importance in continuous regulars.

these madifications the economic

mapy down was the cush outby of

Among others through reflected as to

NEW AVIATION PRODUCTS



Ouicker Inspection

halm, odd shapes and bond, radial and

11209 Madage Ave. Clercked, Ober-

Spotlights Production
Spotlight leight least work in that
spotlight leight least work in that
related to the production of the spotlight leight least
related to the production of the spotlight leight lein leight leight leight leight leight leight leight leight leight



note mention is possess by an

spot m a wole sump of dissectors. It Sealing Material on he compand with a transformer of learning Material learnest Column at the work of the column and the column at th

and the control of th



Parts Milled Faster

W. H. Nichali Gr., Wichlam, Menoline equipment designed to ad Erro on more violence semistraceously, but in a more violence semistraceously, but in a metal properties of the semisistence of the semility of the semility light high speed under greaters on all metal-scale numbers in two relaters in a semi-scale semi-scale semitron subspeeduring proof metality hadds mannered apposed so other on know with semi-scale of conventional country. This companies antiservative large Talls companies antiservative large Talls companies antiservative Light hand a driver by individual Earls hand a driver by individual Light hand a driver by individual large transport of greening proprieting adjusted up on down, in a set Tall.



dowlepad by Boowin, Inc. Frott Weyes, Isal, as Johrength and shagend and shagend tool treat levels and treat levels. The shagend treat treat levels ingringed fraction treats. Device research at some treats provide flygidarmout atomic and the state of the shage provide provide flygidarmout atomic and the modelling of the shage provide provide fractions and treatment for the shade of the shade



to speed production

TORRINGTON NEEDLE BEARINGS

A full complement of small clameter rollers, retained writin a bendered rose as illustrated, become a single, esupport salt widely known on the VoltaineSCON MEDGLE BEALING — a salt which simplifies and order consensity, for illustrate discoverable one of some layer.

no oddition, no complex housing structure in required in oddition, no complex housing structure in required , only a simple hore markined to proper disensations. And so apobars or retrieves are needed!

If you're seeking weps to speed production and unpility assembly, it can pury you read dividents to investment to assembly of Terrington Headle Bearings in terms

POSTERED OF STATE OF STATE OF STATE TO SEINGTON COMPANY



assembly

TORRINGTON NEEDLE BEARINGS

NEEDLE - SPHERICAL ROLLER - TAPERED ROLLER - STRAIGHT ROLLER - BALL - NEEDLE ROLLERS

AIR TRANSPORT

Scheduled Cargo Lines' Rates Hit Slick asks mail pov-subsidy emaration; contracts 60eaccountile for mail with The freight charge

a bin return carriers, faciled that can runs whether appropriate or trackle." * Secretary of Commerce Charles

Allower a 11 secreta mode, Shi-k Carriers' Reports List 1949 Profits

. Scools Introdute and Foreign Con-* Air Tinasport Assa, was neutral on sensed that if their is to be propositive.

Readts of last year's traffic books are

P.U.M. Mol. Por Down-Posident

Peterson and that UAL and the

a SWA in Black Northwest Arburn

*Outen Hemmod-Df the corner's

Resort Airlines Under CAB Scrutiny

ANIATION WEEK, Move 27, 1992



2. Continues exceptes un to 200' without insuring

4 Emmy Spring - Olubrage Suny and that by temperature compensated Insing first previous plant of annual with branks It second holing lines. Converses # Electrical -- Accideble for appropriate from against of 10 or 04 valls D.C., or 118

OPTIONAL FEATURES

GEOPHYSICAL CORPORATION TOTAL DESIGNATION

141 Scooters, How York



= An. airline = -ritalks paint economy and performance ...

The embassissic comments shown above are excerns from a letter written by Chicaro and Southern Airlines. Having recently standardized on Globar Finishes and Gliddon Points, they were interested at evaluation the savines and superior performance they had obtained. In addition to the statement above Mr. B. I. Anderson

Director of Research and Development, had this to say: 'Deserve flights through salt air over Houston, New

Glidair finishes hold their aloss longer than any others "We have found that Children franches excell all others and we are appreciative of the low end cost and high

quality of your products." Consider this economy and performance report in terms of your own operation . . . and you'll morify Glidair

THE GLIDDEN COMPANY

GLIDAIR

S and Mason the Carbbean area

Nontheest Nanchada Opposed by IAM

It would only sensor that the please Schooled Covers Hanni-School

Haycaiian Lines Have Poor Venr

AVIATION WEEK, Hand 27, 1900

Minister version to last members or ne over past in soughly \$900,000 The sect total research and the party TPA to the but up meetly of 1649.

St. Mary Country Speecht Novemberry New Capital Sought-Negotiations are now mades was to not must confide she is seeing a \$150,000 Recombine

commone, stocking-year connect over Co, and wall pay, which the curren

Field Fire Protection Problems Discussed

Income Labour President of Widols

AND PERSON NAMED IN CO., OR ADDR.

Bendi ORIGINATOR OF HICRONIC SUTERTION





han to Brandle Shipper filter. They know from post expensess, as well as current operational forest in meaturings. Why not let Broadly. Skinner





BXTHALL , YOU GON'T KNOW WHAT YOU'RE MISSING

178 CONT · ATT STREET, NA

PERFECTION MULTIPLE COPY ROLLS

the latter feature near new standard or

Reductions Offered For Atlantic Travel

SADENA Driver Address Securities fore may carried the on scales Piles lidy and Annual, with sederlines in

5696 60, 5531 23, 563 573, Rosse, 5786 93, 561 4-90, 5780 40

New TCA Route

AUTOMATIC CHEF

AVIATION WELK, Much 27, 1550



Lohanan CENTRI-DIE Castinas finest for ... to Sender Applications—and in the

former Alicen 173 and 175 the flore and States M7 the floor & Whitney 187 and the Westerbooms 174

course for an analysis assessed and invasion V. Day washess All MEASON CHES PROPERTY MEASON, PR. herr removed officer defined to force, we adopt used as Offering DES









Anare Pers offers a rough while comics so the manufact

carre who consider a special

specifications. The creative men

at Aftern Brit . . . experienced___

tree Monteol and Tomoto to Part. to our PICA arrange and maintenance

ALPA's Design for DC-3 Replacement

neuring desforces . . . skin and pendada sinte ta mare terram mere Here mades one coul is SIMPLIFY from foundry to plutine and all Thermocounte outstanding in sudgetry say on Connections

special looking device problem is yours for the arking.

semanting the wasserple covering length. The Pelanand Consenting on made of the

AV Will your bish would se derivable

CHORTUNES

P. Arneccon-Benarity de maneteen can

Dutted of Caloraba access referen tween migratery entract and their

common tighet areats, and require b Brand-Dis whal CAR for a contri PROMETE CONTRACTOR OF STREET

ANIATION WEEK, Alexa ST, 1953

---h Du. American, Experts a served from

P. Salema-Proprient Giffart Proor be-

because Courses orConstitutions were no

Attender content : The entrors tomo-

Hole You treffic you reported to you?

for moreov DCA; ign classes

alone The carefiners will be carefable

CAR SCHEDULE

10-Perhantes conference in T montrage come (Crockel 5414 of all as to-Crokestria published in 1

Apr Bridge Apparent in U. S. anneas arries man. Cluster Life at al. Apr 18 - Status on Tax Climwan-turin and Darries Washington Thomas burks and Darries Washington Thomas

Annual the U.S. and opposes ... you age depend on

IT'S A EACT!

MORE NARCO UNITS ARE SOLD

@ I EWIS THERMOCOUPLE FOR ENGINE TEMPERATURES

The state of the state of Manch to the staff 1907 and approximate and the special part 1907 and approximate and the special part of the staff of the special SAAA Associations as B 1906. For particular transplanting is subspecially, and the tagging the man to the part of the land for your sufferent derive for a descendent THE LIE SMITH CO

ANIATRON WITH HOUSE ST. 1950

price \$3 000 00

AMPROACT & ELECTRONIC

As a leading supplier we offer a

BEAND NEW INSTRUMENTS ETHING THE WITCH WELL BANKS

complete has a

ACCOUNT LABOR.

AND DESCRIPTION OF THE PERSON NAMED IN

MINISTER ARTES

These explant we shot man given bettern new and have bed AGE C.A.A. appeared models in rabelestics system kinws.

*** ********

NAME AND TAXABLE PARTY OFF THE PARTY.

\$1101.03 vPost sypeopt

OR CARRIED PARTIES SERVICE AND

ton removes

ENGINEERS Brownsk and Browlerman Career Parities for

WHAT'S NEW

tation.
Published by Toronto Press Ltd.

Vores Adment Phonore to 1979.

make and levelde. Write The Re-search Institute of America, Inc., 292 Medium Am., N. V. 17, N. V.

New Literature

New Books

Too Engineers and Anglests Sooier Starter Markement Senences

Flectores Innever-24 years seperiture in Animon and

THE GLENN L. MARTIN CO.

WANTED

DO 4 PASSENGER AIRCRAFT INTERNATIONAL AIRFLIGHTS EXCHANGE

No. P. com

There are "AN HARDWARE WANTER" W. Coll., April by Print.

Dieing Sun Street or ARROMAUTICS

THE OWNER OF THE PARTY OF THE P

AVAITOR WITE NAME 27, 1950

I. p. spentry

PERSONAL PROPERTY.

FOR LEAD Princip led longs.

POSTERNAL MARKET

VASTICO COCA Seguino First action ATB or Communication of the Communicat

25 NEW D2800.75 OFFICIENT PROTECT

CERTIFIED BY GRAND CENTRAL for full furtingers CHARLES GROSSO

PRINTING CODES SYSPICITION Abstract-Stated St.EA, Trick Story, 846

STAN CONSTR. CO.

NEW DC-3: DC-4

S)MART Collector River Links Collector River Links Collector (1) 1079 Con

WADR CALES COMPANY

Minwi Florida

STISSEFART OF

C-474 fred then under some AGTO WING AR SERVICE THE

1114312 0.0

\$11462 A 3

311657Z

New Sale Conventors E30,400 C-47 to least on regions and 234,800 WHITHEY THESE STATES A Committee State of Drawland and Explorate State of Management and Explorate Seasons, London, Front & C-47 AND DC-3 PARTS

NAME AND ADDRESS OF TAXABLE

DEMMENT WERNER ISS

UC-3 spring and sedies

Now Boy Garmen

field to Laws, Me. restrict field

II and Address Symbol on

Corpt So new shore prochad on

THE LOSS OF Head Prints All Instruments other the Paralleless WITH Great Neck, N. Y. DETAILURE ACCUSING SERVICE SER

Desglas GC-4 Descuriable power plants for 5-2009-2-31/2-33

towned to Delivery

ENERAL OVERSEAS AIRCORE

Flee Acc fing Covi

Complex Herr daken

Former midless \$1 vessessess

DC.3 G-102

colority rapidity of decrees the feet true of

contra previous reston, 'No're where of the three moreovery

for the place products of the

PIASECKI

Noods

TOP ENGINEERING TALENT

To Hale Design & Solid The

HRP-2 . . MUP-1 . . XH-18

and NOW the H-21

One Man Seus in Our

alacrity

AVIATION WEEK, MARCH 27, 1960.

ADVERTISERS IN THIS ISSUE

Clifford Manufacturing Computy Broad Count

Guantin Artist Engineering Corp. Secol Corp.

Hanny Sherred Mk. Co., The ...

Transmissed & Woter Aiden

Wilcon Eastly Coupers - U

operation requires a heavy natural traffic flow between Week Mandatung Orogen 14 two large olders located in the same state but far enough and to brine out the alrahau's time adoption potr Assurable W. Offer Co., let-Les Austies and Sur Francisco during the post two years

carrier total! between the two California offen besen

F D I T O R I A L

Fire enteresis is house mather flow in the orr trace.

port undustry. It is proving to be an exeruetic rhost-

For the west west outcome del color concentros

contract common. But the Cled Assessment of Record has

they are in another of the sunnay's encounter annelstance

nied extractate fluidas hetspress Los Angeles and Sen Fren-

Parello Corebound four certificated referen Classes.

to the All and hand the same is such that

Still, Cal Contral's success on the 350-ms. Los Aurales-

But in 1988, the subner, both certificated and uncerti-

and have \$25,000 (262 remove). Total in much may

now on the San Francisco-Lon Asserte hole but one

preceded \$1.2 million.

constitute by nuring carrier, and the rememble by certs

The Impact of Air Coach

By the start of 1991 daily San Francisco Lee Appelos 43. This common with 11 religion and 18 rectabut

the avenues and constant was any 19-22109 (asked to by contrader. Airling topool time of 3.5 by Assent to

used a reveale externobale. Assured 34 percent of the air

When Cal Central earned over 2000 assessers during in the case of all company (forces 1040) and heat may CCA's avelegat Agether group of uncertificated ar-

Hard bit by the coach competition. Western for Lines Boundard W. C. Direktopter last field helped and at the "gatergraftes" cutrate carners for sliegedly fives with out proper safety regulation, confusing the public with more than a mouth later. Western Air Lines of Calforcia (of unadmitted unreatest) been \$9.95 Los

density DC-4s lessed from Western, but also Western cotes, minimumane, disauthing, concressirations and

West Feb. 6) This month. Wennes was ready to mit Outed An Lores conschaned birtedy to CAB amont mem petropagatality of Western" set up as sessable viola-

hen of the Civil Amountation Act. Cal Central filed a \$500,000-dessage nett against WALC and WAL, there, me violation of the state's seti-trast less scales trade

Presecks levites You To RESOLUTION ENGINEERS min a M.S. Pages has an executive Suphering College and a science of a year LAYOUT ORBITSMEN and at least 4 pr specific and proven

THEE LOCAL INT

Martin, Pa., Naor Philodelphia

Diocecki Heliconter Corn

Lebourn Sted Tecodor

EDITORIAL

But over UAL has decoded to fight for such fee. Still controved that an entit is "success own," United over the controved that we could be "success own," United over the control of the c

In deposing its restriction of the not not entires, the communic recorded in a problematical solution time communic recorded in a problematical solution time competition retrievable.

Cell C. G. Shemma, Cell Central products, hot had long represent with motive size-only operation. It was greant manager of Archar Transport Correct, i.e., which sizes 1995 has been one of the major non-violaided temorestrated operation.

All homeons associated in product.

All homeons associated in the size of the major non-violatical temorestrated operation.

ATC but full become the object of CAR enforcement action. The company was problemed from residing me than eight considings between any two infectables possing any first necessity well-considerables possing any first necessity of the content operations, AT was do bly glid fluid source of its plants and more we being loaned to CAI Certain for envirables (lights that p remainly are beyond CABN economic jumilierities. Last year, with a first of rises DC-lb, CAB Centrial 8

states by offered code volume particulars and the state of the state o

Showing is moving once ages that free encorpose

An Editorial Apology
Lut Math 25 on the past we vestured our editional

record that United Are Lives was enable give, howest maken in its related to except rear a conductory and the wind the state of the conductory desired by the conductory of the state of the conductory of the conductory of the property of the conductory of the conductory of the state of the conductory of the conductory of the conductory of the visit of the conductory of t

Now, United, on the lair mager unitine boldwed, has of with the Coll Accessation Bleach is intention to or with the Coll Accessation Bleach in intention to at couch openshous with DOIds on the shraph heavily weight he for the contract of the property of the order law force, were presented by the neededs and seeping the state in much service. But the recognish lake supplied so start an much service, But the recognish time of the forcesser was up as long ago as Sup. 28. We get this inaccessary and pulpoing to our relates: P. S., in the issue collected Botz. 28 we also mad, "Mod American destruct some this codes pleates phofers long American destruct some this codes pleates phofers long."

Wanted: Teamwork

The Air Transport Association's Executive Vice Presitot, Robert Rauspeck, made an address before the

"One of the major problems though the artimes is the sleightes of a strated public existions proposes," he side. "It should be confined to major principles and should be implicated by each instince company of the ATA. Seen I cane with the Americans in Discussy 1046 we have had no mentary public relations program. In fact, we have bad my advantage principles. We have been varing said this first bold impedience we can out to other white programs. The training of the control of the principles of the control of the control of the control of the training and the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the training and the control of the control of the control of the control of the training and the control of the control of

Mr. Ramspeck, who earso to ATA from the House of Representatives as one of the most distinguished move ben that body everhal, says this positive pagaran should dral with employe relations, conceasing whiches, our tensor religious and poversamental relations.

give the facts so our crypayin, to the operations we serve, and to the public—size to our public offends, fedcus, state and local."

Mr. Ramspeck below, what he is taking about. The

All parryces seem what to it there; stock, I have verified members of the ATA here compthing to gots and as thing to less by close cooperation. No temporatorion industry ever had such a glomarism or more supersive service to sell the American people. A atmosp. people, cooperative companys to Thy the such DELIVERY _

Via the Oir Route

The Milleurs. Are Transport Service. (MA18), one indicates it the malifolis of the Americ Flores is and flag craps and promoted streamer and informer model in fulfill camonic millioner, replacament. Fainchild CA19 Parketes, soon to be Tying for the Milleurs. An Transport Service, body fulfill the vital are interpretation notions. Complete of correlation of management with the art of cargo, this vita-capuse interprets and corpo, plans has the consolidy in

the necessity for extra ground handling equipments. Appliane regions and parts linkly communication represent, relucion, teaks and firstliking are some of the mean makers resent for Franchild Clinication with raw. In addition to its oribity on a rough plane, the Porket is expedit, relicent for our countries me-on money, and personnel decomposit.

The C-219 is one of a series of Frieshold transport places which will constrain to play a remarke rule in the apparations of the world wale Military. Av Transport between

FAIRCHILD Aircraft Division

-Robert H. Wood

